

# Major Land Resource Area 116A

## Ozark Highland

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### Ecological site keys

#### ES key for MLRA 116A

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1a. Upland Summits, Shoulders or Backslopes [NOT Upland Drainageways, Sinkholes, Foothills & High Terraces, Terraces & Floodplain Steps, or Low Floodplains]

2a. Bedrock <20"

3a. Cliffs dominant (upper slope range to 70%)

4a. North, East aspects ... R116AY014MO – Dolomite Protected Cliff

4b. South, West aspects ... R116AY017MO – Dolomite Exposed Cliff

3b. Cliffs minor

5a. Dolomite residuum

6a. Smaller, isolated acreage primarily in eastern portion of MLRA primarily on Gasconade and Eminence-Potosi dolomite formations ...

R116AY020MO – Shallow Dolomite Upland Glade/Woodland

6b. Larger, continuous acreage on Jefferson City-Cotter dolomite formation geology, located primarily in the White River Hills Subsection ...

R116AY021MO – Bald Knob Dolomite Glade

5b. Sandstone residuum ... R116AY027MO – Shallow Sandstone Upland Glade/Woodland

2b. Bedrock >20"

7a. Mollisols or Mollic Subgroups

8a. >12" loess

9a. Fragipan or claypan ... R116AY001MO – Claypan Summit Prairie

9b. No root restriction ... R116AY006MO – Loamy Upland Prairie

8b. <12" loess

10a. <15% slope

11a. Bedrock 20-40" ... F116AY009MO – Calcareous Dolomite Upland Woodland

11b. Bedrock 40" ... R116AY063MO – Chert Upland Savanna

- 10b. >15% slope
  - 12a. North, East aspects ... F116AY010MO – Calcareous Dolomite Protected Backslope Forest
  - 12b. South, West aspects ... F116AY047MO – Calcareous Dolomite Exposed Backslope Woodland
- 7b. Alfisols or Ultisols, not in Mollic subgroups
  - 13a. <15% slope
    - 14a. >12" loess
      - 15a. Fragipan or claypan
        - 16a. Somewhat Poorly Drained ... F116AY066MO – Fragipan Upland Flatwoods
        - 16b. Moderately Well Drained ... F116AY004MO – Fragipan Upland Woodland
      - 15b. No root restriction
        - 17a. Ultic ... F116AY007MO – Low-Base Loamy Upland Woodland
        - 17b. Alfic ... F116AY008MO – Loamy Upland Woodland
    - 14b. <12" loess
      - 18a. Cherty Mudstone residuum or sandstone residuum
        - 19a. Cherty mudstone residuum ... F116AY003MO – Chert Mudstone Upland Woodland
        - 19b. Sandstone residuum ... F116AY023MO – Low-Base Sandstone Upland Woodland
      - 18b. Dolomite residuum or cherty dolomite residuum
        - 20a. Dolomite residuum ... F116AY018MO – Loamy Dolomite Upland Woodland
        - 20b. Cherty dolomite residuum
          - 21a. Alfisols
            - 22a. Bedrock 20-40" ... F116AY044MO – Chert Dolomite Upland Woodland
            - 22b. Bedrock >40"; none ... F116AY011MO – Chert Upland Woodland
          - 21b. Ultisols
            - 49a. Shortleaf Pine able to regenerate naturally ... F116AY090MO – Low-Base Chert Upland Pine Woodland
            - 49b. Shortleaf Pine not able to regenerate naturally (outside of natural range of Shortleaf Pine) ... F116AY012MO – Low-Base Chert Upland Woodland

13b. >15% slope

23a. Residuum

24a. Cherty dolomite residuum, or cherty slope alluvium

25a. >12" loess

26a. North, East aspects ... F116AY030MO – Loamy Protected Backslope Forest

26b. South, West aspects ... F116AY046MO – Loamy Exposed Backslope Woodland

25b. <12" loess

27a. Alfisols

28a. Bedrock 20-40"

29a. Thin loess

30a. North, East aspects ... F116AY019MO – Loamy Dolomite Protected Backslope Forest

30b. South, West aspects ... F116AY051MO – Loamy Dolomite Exposed Backslope Woodland

29b. No loess

31a. North, East aspects ... F116AY016MO – Chert Dolomite Protected Backslope Forest

31b. South, West aspects ... F116AY048MO – Chert Dolomite Exposed Backslope Woodland

28b. Bedrock >40"; none

32a. North, East aspects ... F116AY002MO – Chert Protected Backslope Forest

32b. South, West aspects ... F116AY062MO – Chert Exposed Backslope Woodland

27a. Ultisols

33a. North, East aspects ... F116AY013MO – Low-Base Chert Protected Backslope Woodland

33b. South, West aspects ... F116AY049MO – Low-Base Chert Exposed Backslope Woodland

24b. Sandstone residuum

34a. North, East aspects ... F116AY045MO – Low-Base Sandstone Protected Backslope Woodland

34b. South, West aspects ... F116AY053MO – Low-Base Sandstone Exposed Backslope Woodland

23b. Colluvium ... F116AY022MO – Talus Footslope Forest

1b. Upland Drainageways, Sinkholes, Footslopes & High Terraces, Terraces & Floodplain

## Steps, or Low Floodplains

35a. Fens or Upland Drainageways [NOT Sinkholes, Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains]

36a. Historic Prairie ... R116AY026MO – Wet Upland Drainageway Prairie

36b. Historic Forest

37a. Somewhat Poorly, Poorly Drained ... F116AY036MO – Wet Upland Drainageway Forest

37b. Moderately Well, Well Drained ... F116AY037MO – Gravelly/Loamy Upland Drainageway Forest

36c. Fen landform or very poorly drained soils with mucky surface associated with spring discharge, occurring on multiple landforms. ... R116AY100MO – Karst Fen

35b. Sinkholes, Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains

38a. Sinkholes [NOT Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains]

39a. Well Drained ... F116AY043MO – Loamy Sinkhole Woodland

39b. Somewhat Poorly Drained ... R116AY029MO – Poned Sinkhole Wetland

38b. Footslopes & High Terraces, Terraces & Floodplain Steps, or Low Floodplains

40a. Footslopes & High Terraces [NOT Terraces & Floodplain Steps, or Low Floodplains]

41a. Mollic ... R116AY005MO – Wet Footslope Savanna

41b. Alfic & Ultic

42a. Somewhat Poorly, Poorly Drained ... F116AY035MO – Wet Terrace Forest

42b. Moderately Well, Well Drained

43a. Low Available Water Capacity (skeletal or fragipan) ... F116AY031MO – Dry Footslope Forest

43b. High Available Water Capacity (loamy or clayey) ... F116AY032MO – Loamy Footslope Forest

40b. Terraces & Floodplain Steps, or Low Floodplains

44a. Terraces, Floodplain Steps

45a. Argillic horizon

46a. Poorly to Somewhat Poorly Drained ... F116AY033MO – Wet Footslope Forest

46b. Moderately Well to Well Drained ... F116AY034MO – Loamy Terrace Forest

45a. No argillic horizon

47a. Poorly to Somewhat Poorly Drained ... F116AY040MO – Wet

Floodplain Step Forest

47b. Moderately Well to Well Drained ... F116AY039MO – Loamy  
Floodplain Step Forest

44b. Low Floodplains

48a. Low Available Water Capacity (skeletal, sandy, coarse loamy) ...  
F116AY042MO – Sandy/Gravelly Floodplain Forest

48b. High Available Water Capacity (fine loamy, fine silty) ...  
F116AY041MO – Loamy Floodplain Forest